AMERICAN UNIVERSITY OBSERVATORY

MONTHLY BULLETIN

METEOROLOGICAL SECTION

OWEN GINGERICH, DIRECTOR

GIORGIO CONTINO, ASSOCIATE DIRECTOR

BEIRUT, LEBANON

Latitude: 33° 54' 22" N.

Longitude: $2^h\ 21^m\ 52^s.7$ E.

DECEMBER 1956

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DECEMBER 1956

METEOROLOGICAL REGISTER

Date	Barometer reduced to O°C Sea level and 45° Latitude 700 mm. + ...				Thermometer Degrees Centigrade					
	8:30	14:30	20:30	Mean	Max.	Min.	8:30	14:30	20.30	Mean
1	65.1	64.0	64.9	64.9	22.9	19.3	19.5	21.3	20.6	20.5
2	65.0	64.1	65.5	64.9	24.5	19.4	21.3	23.9	20.3	21.8
3	62.8	61.3	61.8	62.0	24.3	19.2	21.2	23.2	22.2	22.2
4	61.7	60.7	58.9	60.4	24.2	17.5	20.4	20.4	20.9	20.6
5	61.8	61.6	62.9	62.1	20.0	16.2	17.8	19.6	16.8	18.1
6	63.8	62.1	61.8	62.6	19.0	15.4	17.7	18.3	14.1	16.7
7	59.2	60.2	61.0	60.1	17.0	11.2	13.6	16.7	15.3	15.2
8	59.6	56.3	55.2	57.0	16.6	10.5	12.2	14.8	13.2	13.4
9	60.2	59.4	60.6	60.1	15.0	4.2	14.1	10.4	11.1	11.9
10	65.1	65.4	67.3	65.9	11.2	5.6	5.8	9.4	8.7	8.0
11	68.2	69.1	69.9	69.1	10.4	7.7	8.4	10.0	9.1	9.2
12	70.2	68.9	68.1	69.1	12.8	9.6	10.1	11.9	9.8	10.6
13	65.3	65.3	65.2	65.3	17.2	9.9	13.2	14.2	13.9	13.8
14	66.3	66.0	66.6	66.3	13.7	9.9	12.8	12.9	11.4	12.4
15	67.3	66.4	67.1	66.9	15.1	10.6	11.1	14.5	13.7	13.1
16	67 5	66.2	66.5	66.7	15.0	10.8	11.9	14.1	11.8	12.6
17	66.9	65.9	65.9	66.2	16.4	11.9	12.3	15.0	12.6	13.3
18	64.4	62.1	62.4	63.0	16.2	12.0	12.9	15.1	13.4	13.8
19	61.8	61.1	61.7	61.5	17.2	11.7	13.7	15.4	13.5	14.2
20	60.0	58.9	60.0	59.6	16.3	8 7	13.5	14.9	11.7	13.4
21	59.6	59.7	61.4	60.2	12.9	9.9	10.2	12.8	11.6	11.5
22	64.9	65.9	67.9	66.2	15.5	10 8	12.7	14.8	12.6	13.4
23	69.4	68.8	68.3	68.8	16.6	12.0	12.9	16.1	13.4	14.1
24	66.8	64.6	64.6	65.3	17.1	13.4	13.6	16.1	14.5	14.7
25	63.3	62.4	63.4	63.0	17.9	13.7	15.6	17.6	15.0	16.1
26	63.9	63.0	63.6	63.5	19.0	12.8	14.4	18.0	16.1	16 2
27	63 6	62.8	63.7	63.4	16.4	12.7	15.3	13.8	13 5	14.2
28	64.8	63.7	63.5	64.0	16.8	12.2	13.9	16.0	13.8	14.6
29	62.4	60.5	60.7	61.2	16.7	13.2	13.7	16.1	14.5	14 8
30	62.8	62.8	64.8	63.5	17.1	11.8	14.8	16.5	12.4	14.6
31	64.9	63·3	63.6	63.9	17.4	11.6	14.2	16 3	14.2	14.9
	64.15	63.31	63.83	63.76	17.04	12.11	14.03	15.81	14.05	14.64

Barometer, range for month 770.2 mm. — 755.2 mm.
„ 71-yr. average for month 763.23 mm.
Thermometer, range for month 24.5°C — 4.2°C
„ 71-yr. average for month 15.99°C
Rain total for month 121.32 mm.
„ 71-yr average for month 185.45 mm.
„ Total, Sept. 1st. to end of month 165.77 mm.
„ 71-yr average. Sept. 1st. to end of month 374.27 mm.

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Date	Pressure of Water Vapor Millibars				Relative Humidity per cent.				sun.	Wind per day	Rain
	8:30	14:30	20:30	Mean	8:30	14:30	20:30	Mean	Hrs.	Kms.	m.m.
1	14.6	17.1	17.6	16.4	65	69	73	69	7.1	177.0	
2	16.5	12.7	19.9	16.4	65	43	83	64	3.3	195.0	
3	14.3	16.5	13.4	14.7	56	57	50	54	6.9	256.0	
4	21.1	18.1	14.9	18.0	87	76	59	74	2.1	655.0	0.72
5	13.3	13.5	12.6	13.1	65	61	68	65	6.7	304.0	0.68
6	11.8	13.3	15.4	13.5	58	64	96	73	0.0	219.0	7.30
7	14.3	12.1	12.5	13.0	95	66	74	78	2.5	470.0	16.78
8	13.3	13.0	13.8	13.4	93	77	92	87	1.0	1020.0	29.73
9	8.7	10.9	7.9	9.2	54	87	60	67	0.1	908.0	14.35
10	7.9	7.6	6.0	7.2	90	62	55	69	6.2	591.0	10.03
11	5.7	8.0	5.6	6.4	53	64	48	55	4.9	452.0	0.50
12	6.3	6.2	6.7	6.4	50	48	57	52	9.3	317.0	
13	4.9	9.6	8.3	7.6	33	59	52	48	4.5	510.0	0.20
14	10.5	9.6	10.1	10.1	71	65	77	71	5.2	443.0	2.60
15	8.8	8.7	8.7	8.7	66	53	56	58	9.2	550.0	
16	8.7	9.6	10.1	9.5	65	63	73	67	9.1	303.0	
17	7.0	8.7	7.4	7.7	50	50	50	50	8.9	257.0	
18	9.6	9.6	7.0	8.7	65	58	44	56	5.0	472.0	
19	6.5	7.4	7.4	7.1	40	42	49	44	6.8	528.0	
20	6.1	10.1	10.1	8.8	41	60	73	58	2.2	499.0	
21	9.2	11.4	8.7	9.8	76	79	64	73	1.6	460.0	10.22
22	11.4	9.2	8.7	9.8	76	54	58	63	6.8	314.0	1.60
23	7.9	10.2	10.1	9.4	54	55	65	58	9.0	275.0	
24	8.3	10.2	9.6	9.4	55	55	60	57	8.5	285.0	
25	8.3	11.3	9.6	9.7	46	55	56	52	3.1	264.0	
26	10.1	11.8	12.1	11.3	62	58	67	62	8.2	544.0	0.32
27	11.5	13.9	12.9	12.8	69	87	86	81	1.6	715.0	8.07
28	13.4	14.1	11.5	13.0	84	78	74	79	0.8	311.0	1.32
29	11.0	11.6	10.1	10.9	69	62	61	64	6.8	274.0	
30	11.5	12.6	13.3	12.5	68	68	93	76	6.9	375.0	9.70
31	12.5	12.1	12.0	12.2	76	68	73	72	1.1	283.0	7.20
	10.49	11.31	10.77	10.86	64.4	62.7	66.0	64.4	5.01	426.64	3.91

Height of Barometer above sea level : 33.7 meters.
Height of Thermometers above ground :
Dry and wet 1.25 m. ; Max. 1.30 m. ; Min. 1.50 m.
Hygrometric data from readings of wet and dry bulb thermometers exposed in a Stevenson screen, reduced according to M.O. 265.
Rim of Rain Gauge : above ground 0.66 m. ; above sea level 30.31 m.
Rainfall is read at 20:30 for the preceding 24 hours.
71 year averages are for period, 1875-1945

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Date	Clouds clear—0 Overcast—10				Direction and force of wind			Sea	Notes
	8:30	14:30	20:30	Mean	8:30	14:30	20:30		
1	0	9ci	10ci	6.3	1e	1e	1e	light	
2	10st	8ci	0	6.0	1e	1e	1e	,,	D.p.m
3	3ci	10ci	0	4.3	1e	1e	1se	,,	
4	10ci	10st	10st	10.0	1sw	4ne	2w	,,	D.a.m
5	7cu-st	10cu-st	10st	9.0	1w	1w	1s	,,	
6	10st	10st	10ni	10.0	0	1ne	1sw	light	
7	10st	9cu-st	10st	9.7	2w	1w	1w	,,	
8	10st	10st	10ni	10.0	1se	1s	3sw	,,	
9	10st	10ni	10st	10.0	4sw	4nw	2n	slight	
10	10st	6cu-st	10st	8.7	1se	2n	1se	light	
11	8ci-st	4cu-st	6st	6.0	1se	1ne	1e	light	
12	4st	0	0	1.3	1se	1n	1se	,,	
13	2cu-st	10st	10st	7.3	2se	3ne	2s	,,	
14	7cu-st	4cu-st	5st	5.3	1ne	1ne	1ne	,,	
15	0	0	0	0.0	1e	1ne	2ne	,,	
16	0	0	0	0.0	1ne	1nw	1se	light	
17	3cu-st	4cu-st	9ci-st	5.3	1se	1w	1e	,,	D.a.m
18	10ci-st	5ci-st	3ci-st	6.0	1e	2ne	1e	,,	
19	10ci	10ci-st	3ci-st	7.7	1e	3e	1se	,,	
20	7ci-cu	10st	10ci-st	9.0	1se	2nw	2w	,,	
21	10st	10st	10st	10.0	1s	1sw	1se	light	
22	9cu-st	6cu-st	3cu-st	6.0	1se	1nw	1se	,,	
23	0	7ci	0	2.3	1se	1nw	1e	,,	
24	3ci-cu	10ci	10ci-st	7.7	1se	1ne	1se	,,	D.a.m
25	10ci-cu	10st	10st	10.0	1ne	1e	1se	,,	D.a.m.p.m
26	3cu-st	7ci-cu	9st	6.3	1se	2sw	2sw	light	
27	10st	10ni	10st	10.0	3sw	3sw	1sw	,,	
28	10st	10st	0	6.7	1s	1s	1se	,,	
29	10ci	10ci	10ci	10.0	1se	1n	1ne	,,	
30	10ci-st	4cu	10ni	8.0	1sw	1nw	1sw	,,	
31	10ci-st	10ci-st	10st	10.0	1sw	1sw	1se	,,	
	mean			7.06					

Abbreviations: G = gale; H = haze; M = mist; T = thunderstorm; D = dew
W = strong wind; Tr = trace of rain

Number of Daily Wind Observations

Time	N	NE	E	SE	S	SW	W	NW	Calm	Totals
8:30	0	3	6	12	2	5	2	0	1	31
14:30	3	8	5	0	2	4	3	6	0	31
20:30	1	3	6	11	2	5	3	0	0	31
Total	4	14	17	23	6	14	8	6	1	93

Number of days with rain 17, fog 0, thunderstorms 0, gale. 0
71 yr. av. number of days with rain during month 13.4
Time of reading minus 2 hours equals G.C.T

LIBRARY APR 19 1957